

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/056595 A2

(51) International Patent Classification⁷: **C07K 14/705**

(21) International Application Number:
PCT/GB2004/005100

(22) International Filing Date: 6 December 2004 (06.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0328363.7 6 December 2003 (06.12.2003) GB

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

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(54) Title: THERAPEUTICALLY USEFUL MOLECULES

Human TCR V α -1.5 (V α -8.2) coding sequence

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ATGCTCCTGC TGCTCGTCCC AGTGCTCGAG GTGATTTTCT CTCTGGGAGG
AACCAGAGCC CAGTCGGTGA CCCAGCTTGA CAGCCACGTC TCTGTCTCTG
AAGGAACCCC GGTGCTGCTG AGGTGCAACT ACTCATCTTC TTATTCACCA
TCTCTCTTCT GGTATGTGCA ACACCCCAAC AAAGGACTCC AGCTTCTCCT
GAAGTACACA TCAGCGGCCA CCCTGGTTAA AGGCATCAAC GGTTTTGAGG
CTGAATTTAA GAAGAGTGAA ACCTCCTTCC ACCTGACGAA ACCCTAGCC
CATATGAGCG ACGCGGCTGA GTACTTCTGT GTTGTGAGTC CTTTTCAGG
AGGAGGTGCT GACGGACTCA CCTTTGGCAA AGGGACTCAT CTAATCATCC
AGCCCTATAT CCAGAACCCT GACCTGCCG TGTACCAGCT GAGAGACTCT
AAATCCAGTG ACAAGTCTGT CTGCCTATTC ACCGATTTTG ATTCTCAAAC
AAATGTGTCA CAAAGTAAGG ATTCTGATGT GTATATCACA GACAAAACCTG
TGCTAGACAT GAGGTCTATG GACTTCAAGA GCAACAGTGC TGTGGCCTGG
AGCAACAAAT CTGACTTTGC ATGTGCAAAC GCCTTCAACA ACAGCATTAT
TCCAGAAGAC ACCTTCTTCC CCAGCCCGAGA AAGTTCCTGT GATGTCAAGC
TGGTCGAGAA AAGCTTTGAA ACAGATACGA ACCTAAACTT TCAAACCTG
TCAGTGATTG GGTTCGAAT CCTCCTCCTG AAAGTGGCCG GGTTAATCT
GCTCATGACG CTGCGGCTGT GGTCCAGCTG A
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(57) Abstract: A T cell receptor molecule (TCR) containing an alpha chain portion and a beta chain portion wherein the alpha chain portion contains three complementarity determining regions (CDRs): CDR1 α : SSYSPS CDR2 α : YTSAATL CDR3 α : VVSPF-SGGGADGLT or comprising or consisting of SPFSGGGADGLT and the beta chain portion contains three complementarity determining regions (CDRs): CDR1 β : DFQATT CDR2 β : SNEGSKA CDR3 β : comprising SARDGGEG or comprising or consisting of RDGGEGSETQY, or wherein up to three amino acid residues in one or more CDRs are replaced by another amino acid residue. The invention also includes polynucleotides encoding the TCR molecules, and host cells containing the said polynucleotides. Patient derived T cells may have the polynucleotides encoding the TCR molecules introduced therein, and the engineered T cells may be introduced into the patient in order to combat a WT1-expressing malignancy.

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SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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